



# Recombinant Bovine Troponin T, slow skeletal muscle (TNNT1)

<b>Product Code</b>	CSB-MP843115BO
<b>Abbreviation</b>	TNNT1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q8MKH6
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSDAEEQEYE EEQPEEEEAA EEEEEAPEEP EPAAEPEEER PKPSRPVVPP LIPPKIPEGE RVDFDDIHRK RMEKDLELQ TLIDVHFEQR KKEEEELVAL KERIERRAE RAEQQRFRTE KERERQAKLA EEKMRKEEEE AKKRAEDDAK KKKVLNSMGA HFGGYLVKAE QKRGKRQTGR EMKLRILSER KKPLNIDHMG EEQLREKAQE LSDWIHQLES EKFDLMAKLG QKQYEINVLY NRISHAQKFR KGAGKGRVGG RWK
<b>Source</b>	Mammalian cell
<b>Target Names</b>	TNNT1
<b>Protein Names</b>	Recommended name: Troponin T, slow skeletal muscle Short name= TnTs Alternative name(s): Slow skeletal muscle troponin T Short name= sTnT
<b>Expression Region</b>	1-263
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This gene encodes a protein that is a subunit of troponin, which is a regulatory complex located on the thin filament of the sarcomere. This complex regulates striated muscle contraction in response to fluctuations in intracellular calcium concentration. This complex is composed of three subunits: troponin C, which binds calcium, troponin T, which binds tropomyosin, and troponin I, which is an inhibitory subunit. This protein is the slow skeletal troponin T subunit. Mutations in this gene cause nemaline myopathy type 5, also known as Amish nemaline myopathy, a neuromuscular disorder characterized by muscle weakness and rod-shaped, or nemaline, inclusions in skeletal muscle fibers which affects infants, resulting in death due to respiratory insufficiency, usually in the second year. Multiple transcript variants encoding different isoforms have been found for this gene.



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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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